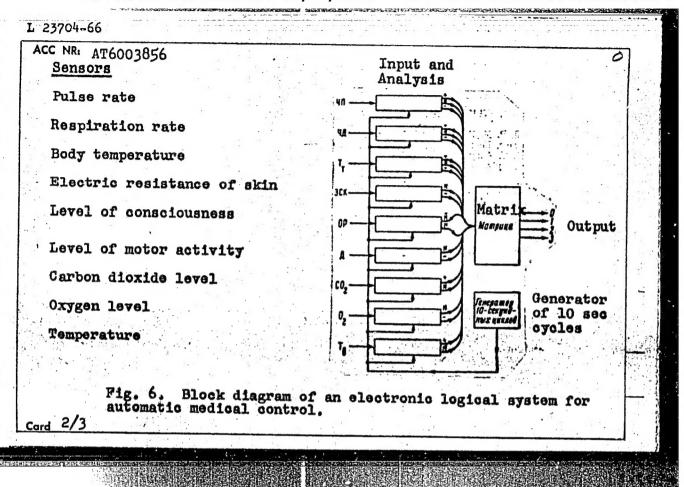
L 23704-66 ENT(1) SCTB ACC NR: AT6003856 SOURCE CODE: UR/2865/65/004/000/0217/0226. AUTHOR: Kostikove, V. Ya.; Bayevskiy, R. M.; Kelinovskiy, A. P.; Soshin, B. A. ORG: none ... TITLE: Possible application of electronic logical circuits for automatic medical control SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 217-226 TOPIC TAGS: bioastronautics, bioinstrumentation, biotolemetry, automatic control system, logic circuit, electronic circuit ABSTRACT: Space flights of longer duration and covering greater distances will sharply reduce telemetric transmission of medical and biological data. This leads to the problem of developing on board automatic medical control devices for monitoring data on the astronaut's condition. For space flights slong established orbits which do not require readjustment of progremmed instructions during course of flight, electronic logic circuits are satisfactory because of their simple design, low weight and small size. The algorithm of analysis for each Card 1/3



ACC NR: AT6003856

of the indices (such as, body temperature) includes three operations:
(1) measurement of the index during a given interval of time; (2) comparison of the index value with the norm range in the form of symbols, e.g., designating normal by "N", or "+" for higher than normal, or "-" for lower than normal; and, (3) comparison of symbols of different parameters according to a given logical system and determination of a code indicating a "diagnosis." (see Fig. 6). All problems of automatic diagnosis in which linear programming is applicable can be solved by electronic logic circuits. Orig. art. bas: 6 figures and 1 table.

SUB CODE: 06, 09/ SUBM DATE: none/ ORIG REF: OOh.

Investigation of the conical smoke exhaust system in locomotives.

[Truly] MVTU no.27:129-140 '54. (MLRA 7:11)

(Locomotives--Exhaust)

EWT (m)/T ACC NR: AP5027306 SOURCE CODE: UB/0241/65/010/010/0067/0073 AUTHOR: Belle, Yr. S.; Kostikov, Yu. I.; Shemov, V. P.; Shapiro, E. I ORG: Lenigrad Scientific Research Institute of Radiation Hygiene, Ministry of Health, RSFSR Leningradskiy Nauchno-issledovate skiy institut radiatsionnoy gigieny Ministerstva zdravookhraneniya RSFSR) TITLE: Radiometic properties of the large liquid scintillation counter BZbSS-1 SOURCE: Meditsinskaya radiologiya, v. 10, no. 10, 1965, 67-73 TOPIC TAGS: scintillation counter, gamma counter, scintillation spectrometer, radiation instrument, radiobiologic instrumentation, experiment animal/BzhSS-1 acintillation counter 10 ABSTRACT: The article describes the counter and illustrates it in a figure. Its 4 Tdimension and large measuring volume permits considerable amplification of the criterion of radiometric quality, n2/n background. It is particularly suitable for measuring low gamma radiation in experimental animals up to a large rabbit and other objects of similar size. A procedure for finding the optimal differential registration channel is given. The instrument has spectrometric semi-Card 1/2 UDC: 612.014.482:621.387.4

L 10806-66

ACC NR: AP5027306

resolution equal to 39 and 21% for Cs¹³⁷ and K⁴⁰ respectively and thus does not allow analysis of complex gamma radiation spectra. Activities of 5.10⁻¹¹ to 5.10⁻³ curies can be measured. Isosensitivity of the larger part of the measuring volume is shown to be high and is seen particularly upon moving the source. The configuration of the object hardly influences the measuring results. Increased specimen volume will lead to self-absorption and attenuation of initial gamma irradiation producing a slight drop in the count. This is shown on aqueous phantoms. For those up to 0.5 liter this does not depend on radiation energy and amounts only to a few percent. This counter has been used for radiobiologic and radiation protection studies and has been found highly reliable. Reproducibility was increased 10-20 times compared to radiochemical methods, and the number of measured objects reached 6000 per year. Its use for prevital radioactivity determination in experimental animals afforded studies of isotope metabolism in the organism. Orig. art. has: 10 figures.

SUB CODE: 06, 07/ SUBM DATE: 05Jan 65/ ORIG REF: 001/ OTH REF: 002

Card 2/2

IVANOV, B.I.; ISTOMINA, V.N.; LYUDKOVSKAYA, A.A.; KOSTIKOVA, A.Ya.;
TALYZENKOVA, G.P.

Preparation of thixotropic paint materials and study of their physicomechanical properties. Lakokras.mat.i ikh prim. no.1: 28-33 '62. (MIRA 15:4)

(Paint materials)

IVANOV, B.I.; ISTOMINA, V.N.; LYUDKOVSKAYA, A.A.; KOSTIKOVA, A.Ya.;
TALYZENKOVA, G.P.

Methods of preparing thixotropic lacquer and paint materials. Lakokras. mat. i ikh. prim. no.4:21-27 '61. (MIRA 16:7)

(Paint materials) (Thixotropic substances)

ANDREYEVA, O.I.; KOSTIKOVA, G.I.

Isotopic exchange of C^{14} in the systems KCN - CO_2 , KCN - CO_2 . Trudy GIPKH no.49:149-158 '62. (MIRA 17:11)

ENT(1)/ENT(m)/ENP(i)/T/EMP(t)/EEC(b)-2/ENP(b)/ENA(c) L 52517-65 UR/0181/65/007/004/1169/1174 JD/GG AP5010729 ACCESSION HR: 43 36 AUTHOR: Rozhanskiy, V. K.; Kostikova, K. P. TITIE: Horphology and origin of stacking faults in epitaxial layers SOURCE: Fizika tverdogo tela, v. 7, no. 4, 1965, 1169-1174 dislocation motion TOPIC TAIS: epitarial layer, stacking fault, crystal growth, ABSTRACT: The authors investigated the configuration of stacking faults in epitaxial layers of germanium at the place of their origination on the boundary between the substrate and the epitaxial layer. The faults were observed in an electron microscope in transmitted light, at an accelerating voltage 100 kV. The sample preparation procedure is briefly described. The examination in the electron microscope has shown that the epitaxial layer is neither homogeneous nor of constant thickness but consists of individual coalesced drops. Single drops take frequently triangular, rectangular, or quadratic forms, the outlines of which disappear upon coalescence. Several types of classifications are found among the comfigurations of the stacking faults and are described. The formation of stacking faults is attributed to exidation or to capture of impurities, and also splitting Card 1/2

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KRIVCHENKOVA, Lyusya; TYURINA, Lara; KOSTIKOVA, Lida; KOSAREVA, Lida; RUMYAHTSEV, Andryusha; CHIZHIKOVA, Lida; GOLEH'SHIH, Petya

Blooming gladioli in May. IUn. nat. no.5:11 My '58. (MIRA 11:5)

1.Shkola No.538, Moskva.

(Gladiolus)

KOSTIKOVA, R.I.

Diagnosis of zinc phosphide poisoning in livestoc't and poultry.

Voterinariia 36 no.5:73 ky *50. (MIDA 12:7)

1. Saratovskaya manchno-isslodovatel skaya veterinarnaya stantsiya.
(Zinc phosphide-Texicology)

Stepina, S.B.; Sedel'Nikov, G.S.; Kostikova, R.V.

Solubility of strontium and calcium nitrates at 0°C. Zhur.neorg.
(MIRA 15:3)

(Strontium nitrate) (Calcium nitrate) (Solubility)

Use of ultraviolet spectroscopy in the analysis of new kinds of captax put on the market. Zhur.VKHO 7 no.2:231-232 '62. (MIRA 15:4)

1. Dorogomilovskiy khimicheskiy savod. (Benzothiazole-Spectra)

GURVICH, Ya. A.; ARISTOVA, T. V.; KOSTIKOVA, V. P.

Spectrophotometric determination of 2,21-dibenzothiazole disulfide. Zhur. VKHO 7 no.5:580 162. (MIRA 15:10)

1. Dorogomilovskiy khimicheskiy zavod imeni Frunze.

(Benzothiazole—Spectra)

KOSTIKOVA, V.V.

A WARREST WARRANT CONTRACTOR OF THE PROPERTY O

Characteristics of disorders in the intellectual activity of schizophrenia patients with psychopathylike manifestations in the picture of the disease and the defect. Vop.klin., patog. i lech. shiz. no.1:75-77 '64. (MIRA 18:5)

1. Laboratoriya eksperimental'noy patopsikhologii (zav. - doktor pedagogicheskikh nauk B.V.Zeygarnik) Moskovskoy gorodskoy psikhiatricheskoy bol'nitsy No.4 imeni Gannushkina (glavnyy vrach - V.N.Rybalka).

KOSTIKIAH, G.K., dots.; POPOV, V.I., kand. sel'skokhozyaystvennykh nauk;
KAZARYAN, V.A., assistent.

Subalpine pastures. Mauka i pered. op. v sel'khoz. 7 no.10:45-46
0 '57.

1. Terevanskiy sooveterinarnyy institut.
(Armenia—Pastures and meadows)

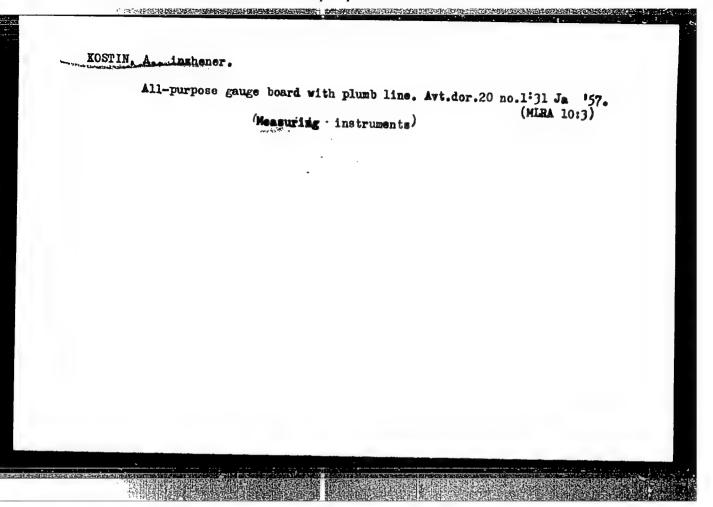
KOSTILEVA, i.N., insh.

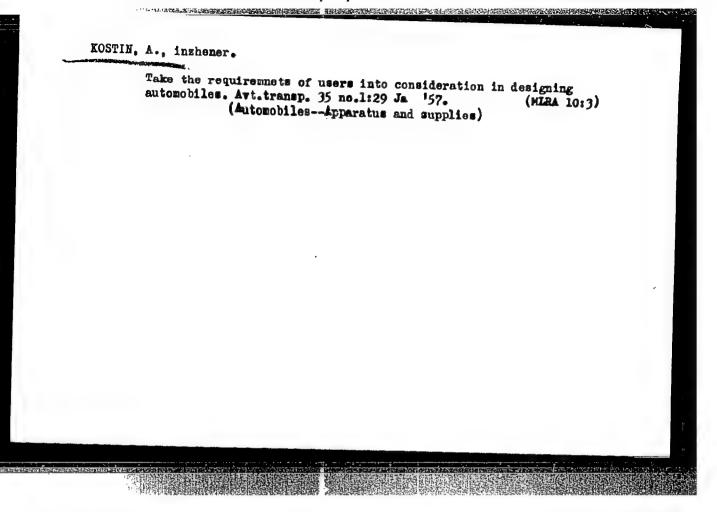
Correct use of cotton-knitting machines. Tekstilna prom 11 no.2:15-17

KOSTIN, A.

K.B. TSiolkovskii, amateur photographer. Sov.foto 18 no.12:77
D '58.

(TSiolkovskii, Konstantin Eduardovich, 1857-1935)





KOSTERIN, V., KOSTIN, A.

Improve loading and unloading operations. Rech. transp. 22 no.5:21-23 My '63. (MIRA 16:8)

COSTIN,	Α.				
	In a Kaluga ast	ronaut's house.	Av.i kosm.	45 no.4:19-2	l Ap (MIRA 16:3)
	1. Zamestitel'	direktora muzeya (TSiolkovakogo	K.E.TSiolkov , Konstantin	skogo, g. Kal Eduardovich,	: 1 53. 1 857(-1 935)
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At the sources of the Leminian party. Komm. Vocruch, Sil 5 no.21:8692 N (64.)

(MiRA 17-12)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220002-0 ,这种是一种,我们是是一种的人,我们就是一个人,我们就是一个人,我们就是一个人的人,我们就是这些人的,我们就是我们的一个人,我们就是我们的人,我们就会会是一个人,

KONDRAT'YEV, I.; ABRAMOV, I.; AKSENOV, I.; KOSTIN, A., inzh.; STADNICHUK, P., mekhanik; DAVYDENKOV, N.; PALEYEV, G.

Supply of spare parts. Avt. transp. 43 no.3:26-29 Mr 165.

(MIRA 18:5)

1. Glavnyy inzh. Novokakhovskoy avtobazy (for Abramov).

2. Starokonstantinovskiy avtopark (for Stadnichuk).

MEYEROVICH, E.A.; KOSTIN, A.A.; KOKURKIN, B.P.; VLADIMIKOV, S.P.

Studying the influence of ferroragnetic elements in the construction of powerful aluminum electrolytic cells on magnetic fields in the zone of melting. TSvet met. 38 no.11: 84-90 N '65. (MIRA 18:11)

IOZOVOY, D.A., kand. tekhn. nauk; KOSTIN, A.A., inzh.; OSTROVSKIY, A.;
TSYGANOV, R.; CHVANOV, V.

Reviews and bibliography. Avt. dor. 28 no.4:30-42 Ap '65.

(MIRA 18:5)

MEYEROVICH, E.A. (Moskva); KOSTIN, A.A. (Moskva); NIKITINA, Yu.Ye. (Moskva); KOKURKIN, B.P. (Moskva); VLADIMIROV, S.P. (Moskva)

Study of current supply systems of modern aluminum electrolyzers. Izv. AN SSSR. Energ. i transp. no.1:89-93 Ja-F '64. (MIRA 17:4)

KOSTIN, A.A., inzh.

Location of roads in the region of great Tyumen' oil fields. Avt.dor. 28 no.10:8-9 0 65.

(MIRA 18:11)

KOSTIN, All bert Andreyevich, mladshiy nauchnyy sotrudnik

Electromagnetic transverse forces in a system of solenoids with parallel axis. Izv.vys.ucheb.zav.; elektromekh. 5 no.10:1091-1096 162. (MIRA 15:11)

1. Gruppa teoreticheskoy elektrotekhniki energeticheskogo instituta imeni G.M.Krzhizhanovskogo. (Electromagnets)

ACCESSION NR: AP5006818

5/0144/65/000/001/0113/0114

AUTHOR: Kostin, A. A. (Junior research associate of theoretical electrical engineering laboratory)

TITLE: Magnetic flux density on the axis of a conical coil

SOURCE: IVUZ. Elektromekhanika, no. 1, 1965, 113-114

TOPIC TAGS: magnetic flux density, conical coil

ABSTRACT: The flux density at a point x_0 lying on the axis of a conical coil passing a current i is determined by integrating a formula for the flux density of elementary coils of a length dS. The flux density of a conical coil is given by:

$$B(0, x_0) = \frac{\mu l \omega}{2B} \left\{ \cos\left(\alpha - \beta_1\right) - \cos\left(\alpha - \beta_2\right) - \sin^2\alpha \ln\left(\frac{\lg\frac{\beta_2}{2} - \lg\frac{\alpha}{2}}{\lg\frac{\beta_2}{2} + \lg\frac{\alpha}{2}}\right) \cdot \left(\frac{\lg\frac{\beta_1}{2} + \lg\frac{\alpha}{2}}{\lg\frac{\beta_2}{2} + \lg\frac{\alpha}{2}}\right) \cdot \left(\frac{\lg\frac{\beta_1}{2} - \lg\frac{\alpha}{2}}{2}\right) \right\}.$$

Cord 1/2

ACCESSION NR: AP5006818

where α is the magnetic permeability, which is the number of turns, α is the cone angle, and β is an angle connected with the position of the point α . Orig. art. has: I figure and 16 formulas.

ASSOCIATION: Energeticheskiy institut im. V. M. Krzhizhanovskogo (Power-

Engineering Institute)

SUBMITTED: 05Feb64

ENGL: 00

SUB CODE: EE

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OTHER: 000

Card 2/2

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05439

SOV/120-59-3-10/46

AUTHORS: Shelkov, L. S., Prager, I. A. and Kostin, A. G.

TITLE: Photon Counters for Accurate Measurements of Ultraviolet Radiation (Schetchiki fotonov dlya tochnykh izmereniy

ul'trafioletovogo izlucheniya)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 3, pp 50-56 (USSR)

ABSTRACT: Photon counters have long been used in the detection of weak ultraviolet radiation (Refs 1-11). They have also been used in spectral analysis (Refs 12 and 13). In all this work photon counters were used either in qualitative or semi-qualitative studies or in measurements which do not require high accuracy. However, in spectral analysis the required accuracy should be at least 1-2% and the exposure time is usually limited to 30-60 sec. In such measurements photon counters have to be used with relatively large loads. Under such conditions, the counters are not sufficiently stable (Ref 14). However, these counters have very high absolute sensitivity, they are simple in construction and relatively cheap. The authors have, therefore, carried out some additional studies of photon counters under various working conditions

Card 1/4 including high loads. Electrical and photometric

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05439 S0V/120-59-3-10/46

Photon Counters for Accurate Measurements of Ultraviolet Radiation

characteristics have been obtained for self-quenching photon counters with photo-cathodes of various materials. Relatively large counting rates were used to ensure low statistical errors. A photon counter has been developed which has a Cu-Be photo-cathode and a tungsten grid screen. Such a construction considerably improves the constancy of the photo-cathode sensitivity. Experiments showed that Cu-Mg and Cu-Be photo-cathodes have very noticeable advantages, Fig 11 shows the construction of a photon counter developed by the authors which has a low dark current and low probability of formation of spurious pulses. In Fig 11, 1 is the stainless steel cathode cylinder, 2 is a tungsten screen grid, 3 is a Cu-Be photocathode, 4 are quartz to glass seals, 5 is a fused quartz window, 6 are kovar discs, 7 is a quartz tube and 8 is the anode wire. The area of the photo-cathode was made as small as possible. The quartz window has an 80% transmission for $\lambda = 1900 \text{ Å}$. Fig 8 shows the variation in the sensitivity of a photon counter with a Cu-Be photo-cathode (curve 1) and a counter with an identical photo-cathode

Card 2/4

05439 S0V/120-59-3-10/46

Photon Counters for Accurate Measurements of Ultraviolet Radiation

but with an additional screen grid (curve 2). measurements were carried out consecutively with a light source of constant intensity. The counting rate is plotted along the vertical axis and the number of the observation along the horizontal axis. Fig 9 shows the sensitivity of the above two counters as a function of The counting rate is plotted the total number of counts. on the vertical axis and the total number of recorded pulses on the horizontal axis. Fig 10 shows the absolute spectral characteristics of Cu-Be photo-cathode counters at the beginning of their work (curve 1 refers to a counter without the grid and curve 3 with the screen grid) and after 106 recorded counts (curve 2 refers to the counter without the grid and curve 4 to the counter with the screen grid). All this work has shown that counters using the screen grid have more stable photometric characteristics. The main working parameters of an experimental set of counters with Cu-Be photo-cathodes and screen grids are given in Table 1. The maximum background is 35 pulses/min, the length of the plateau is 150-250 V and the plateau slope is between 0.06%-0.2% per V.

Card 3/4

05439 S**0V/12**0-59-3-10/46

Photon Gounters for Accurate Measurements of Ultraviolet Radiation

The working voltage is between 1100 and 1200 V and the maximum counting rate is 40 000 pulses/min. All these results show that these counters may be used as highly sensitive detectors of ultraviolet radiation in the range 1900-3000 A. The mechanism of the effect of the screen grid will be investigated later. There are 11 figures, 2 tables and 18 references, 9 of which are Soviet, 2 French, 1 German and 6 English.

ASSOCIATIONS: Fizicheskiy institut AN SSSR (Physical Institute of the Ac.Sc., USSR) and Moskovskiy elektrolampovyy zavod

(Moscow Electronic Tube Plant)

SUBMITTED: April 19, 1958

Card 4/4

KOSTIN, A.G., kand. med. nauk (Woronezh, [obl.] ul. Dzen'kovskogo d.23 kv.1)

Some problems of the methodology of surgical setting of congenital dislocations of the hip joint in children. Ortop., travm. i protez. 26 no.9:16-20 S *65. (MIRA 18:10)

1. Iz kafedry gospital noy khirurgii (zav. - prof. V.P. Radush-kevich) Voronezhskogo meditsinskogo instituta.

SHELKOV, L.S.; PRAGER, I.A.; KOSTIN, A.G.

To the editor of "Pribory i tekhnika eksperimenta" concerning
E.N.Pavlova's letter. Prib. i tekh. eksp. 6 no.2:198 Mr.-Ap
'61. (Photons--Measurement)

(Photons--Measurement)

KOSTIN, A.G., kand med nauk

Method for using curarelike substance in surgery on the extremities. Ortop.travm.i protez. 22 no.4:46-49 Ap '61. (MIRA 14:11)

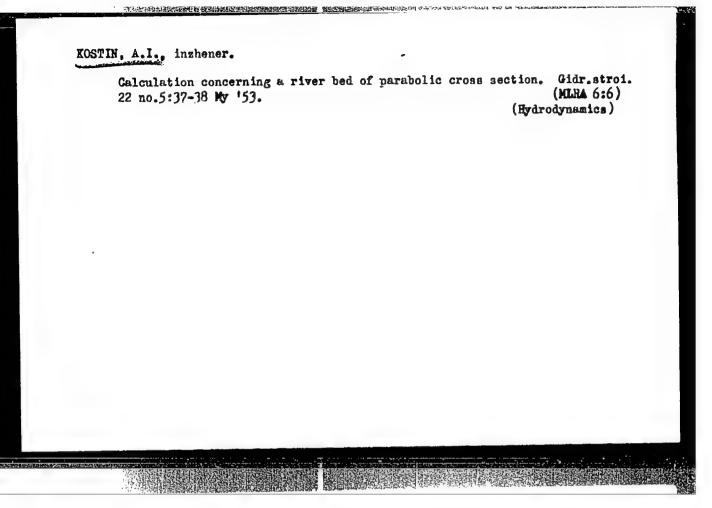
1. Iz kafedry gospital noy khirurgii (zav. - prof. V.P. Radushkevich) Voronezhskogo meditsinskogo instituta. (CURARELIKE SUBSTANCES) (EXTREMITIES (ANATOMY)—SURGERY)

KOSTIN. Aleksandra Leativavich; RAZINKOV, P., red.; KUZNETSOVA, A., tekhn. red.

[Take care of apartment houses] Berech' zhiloi fond. Moskva, Mosk. rabochii, 1963. 65 p. (MIRA 16:9)

1. Nachal'nik shilishchno-ekspluatatsionnoy kontory No.5 Moskvy (for Kostin).

(Apartment houses)



124-57-1-529

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 66 (USSR)

AUTHOR: Kostin, A. I.

TITLE: On a Partial-head Regimen in Conduit Systems (O polunapornom

rezhime v trubchatykh sooruzheniyakh)

PERIODICAL: Sb. tr. Novocherkas. inzh. -melior. in-ta, 1955, Vol 5, pp 101-110

ABSTRACT:

The author distinguishes three regions of a partial-head regimen in the flow through a conduit system: (1) a region exposed to a pressure head, but not to a vacuum, 2) a region comprising stable head and vacuum conditions, and 3) a region comprising fluctuations (instability) between the two. The peculiarities of the motion of the flow in the three regions are described, and criteria are adduced for the transition from one region to another.

V. V. Fandeyev

1. Hydraulic conduits--Flow--Analysis

Card 1/1

Kostin, A.T.

STATE OF STA

124-1957-2-1898

Translation from: Referativnyy zhurnal, Mekhanika, 1957. Nr 2, p 61 (USSR)

AUTHORS: Skiba, M.M., Kostin, A.I.

TITLE: To the Determination of the Critical Depth in a Trapezoidal Channel (K voprosu opredeleniya kriticheskoy glubiny v trapetsoidal'nom

PERIODICAL: Sb.tr.Novocherkas. inzh.-melior. in-ta, 1955, Nr 5, pp 116-124

ABSTRACT: To determine the critical depth of a trapezoidal channel, h, by means of the formula

 $h_k = \mathcal{E}_k y_{kp}$, $y_{kp} = \frac{m}{b} \sqrt[3]{\frac{\alpha Q^2}{\alpha b^2}}$

where Q, b, and m are the discharge, channel bottom width, and the lateral-slope coefficient, respectively, and g and g are the acceleration of gravity and the Coriolis parameter, the following relationship is proposed:

 $\gamma_k = f/(1+y_{kp}) \tag{2} \label{eq:2}$ Special graphs and approx formulas facilitate the computation. Card 1/1 1. In land waterways--Design 2. Mathematics--Applications

CIA-RDP86-00513R000825220002-0" **APPROVED FOR RELEASE: 06/14/2000**

KOSTIN, A.I.

SUBJECT:

USSR/Irrigation

99-7-4/14

AUTHOR:

Kostin, A.I., Candidate of Mechanical Sciences and Sevast'yanov, T.M., Engineer.

TITLE:

"Improvement of the Discharge Section of Tubular Structures". (Usovershenstvovaniye vykhodnoy chasti trubchatogo soorusheniya)

PERIODICAL:

"Gidrotekhnika i Meliorateiya", 1957, # 7, pp 20-23, (USSR)

ABSTRACT:

Tubular structures are largely used at water discharge points of irrigation systems. So far, none of the different discharge nozzles which have been developed in the past have proved satisfactory. The newly developed damper KS-1 (KC-1) meets the requirements. It consists of 4 square cross sectional beams, which ferm a girder partition. The lowest beam is installed on the bottom, the distances of the individual beams being 1/10 of the pipe's diameter. Since the upper section of the tube is not obstructed by a beam, danger of plugging is greatly reduced. In the event of clogging by objects carried by the water, cleaning can easily be accomplished by 2 workers. Reduced velocity of the water current persits considerable savings at the construction of the lower pools. Another advantage of

Card 1/2

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825220002-0

KOSTIN, A.I.

Conjugate depths in a parabolic channel. Trudy NFI 106:111-112
(MIRA 15:5)

(Hydraulic jump)

KOSTIN, A.I., inzh.

Analytical methods of determining the depth of a compressed flow under conditions of a plane problem and the critical depth in a trapezoidal channel. Gidr. stroi. 33 no.ll:41-43 N '62. (MIRA 16:1)

(Hydrodynamics)

KOSTIN, A.I., inzh.

At the Exhibition of the Achievements of the National Economy. Vest.mashinostr. 45 no.8:78-79 Ag '65. (MIRA 18:12)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825220002-0

KOSTIN, A.I., inzh.

Technology of machining parts for precision machine tools in Switzerland. Vest.mashinostr. 45 no.11:47-50 N '65. (MIRA 18:12)

(A) L 27318-66 EWI(d)/EWI(m)/EWP(f)/f-2AM6001048 ACC NR Monograph D'yachenko, N. Kh.; Kostin, A. K.; Mel'nikov, G. V.; Petrov, V. M.; Kharitonov, B. A. Theory of internal combustion engines (Teoriya dvigateley vnutrennogo sgoraniya) 58
Moscow, Izd-vo "Mashinostroyeniye," 1965. 459 p. 111us., biblio. Textbook for o students specializing in internal combustion engines at institutions of higher $\mathcal{O} +$ learning. Errata slip inserted. 16,000 copies printed. TOPIC TAGS: internal combustion engine, carburization, engine combustion system, engine performance characteristic, engine exhaust system PURPOSE AND COVERAGE: This book is published as a textbook for students in higher technical educational institutions and can also be used as a handbook for enginedesign engineers and their technical staffs. It gives an analysis of the internal combustion engine and its applications, from agricultural equipment (stationary and mobile) through automotive and marine uses. A thorough description of turbosuperchargers and engine power rating is included. Fuel and cooling systems and their characteristics are also discussed. This book was prepared by the internalcombustion-engines faculty of the Leningrad Politechnical Institute im, M. I. Kalinin. The authors appear in the following order: B. A. Kharintovich, chapters and IX; G. V. Mel'nikov, chapters II and VII (Except subheading 4 and 5 in chapter VII); N. Kh. D'yachenko, chapters III and VI (Except subheading 4 in chapter VI): V.M. Petrov, chapters, IV and V (Except subheading 1 and 4 in chapter V): A. K. Kostin, chapters VIII, X, and subheading 4 in chapter VII; B. P. Pugachev, subheading 1 and 4 in chapter VI: Yu. N. Isakov, subheading 5 in chapter VII. Card 3.1/3 UDC: 621.43.001(075.8)

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ABLE OF CONTENTS [abr	idged]:		•		
ntroduction - 3					
asic notations 5		•	•		
. Working principle	and working cycles of i	nternal combustion	engines 7		
I. Ideal and theoret	ical cycles 32				
II. Working cycle of	the internal combustic	on engine 79	•	•	
	, exhausting, and scave		e engines-1	34	
. Carburetion proces	s 191				
I. Fundamentals of t	he combustion process	theory in engines	250		
II. Engine superchar	ging 279		•		
TII. Heat transfer i cylinder 321	n engines, and the com	bustion intensity	of the workin	8	
X. Engine performance	e and characteristics	358	14.4		

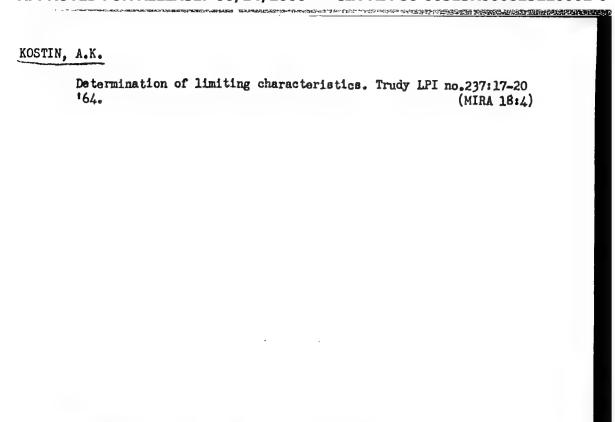
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X. Automatic control	of internal combu	stion engin	nes 406		2 3 2 2 1 2 3 2 3 2 2 1		
Appendix 455				•			
References 456							
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KOSTIN, A.K., kand. tekhn. nauk, dotsent; LIVENTSEV, F.L., kand. tekhn. nauk, dotsent; MEL'NIKOV, G.V., kand. tekhn. nauk, dotsent

Heat stress of the 10GK-1 gas motor compressor with evaporation cooling. Energomashinostroenie 11 no.6:20-22 Je '65. (MIRA 18:7)

BURIN, M.M.; KOSTIN, A.K.

Using the method of thermoelectric analogy in investigating the steady temperature state of an engine piston. Trudy LPI no.237:5-10 '64. (MIRA 18:4)



KOSTIN, A.K.

Heat transfer to the cooling medium of an internal combustion engine. Trudy LPI no.228:102-108 '63. (MIRA 17:1)

\$ 13 J

MEL'NIKOV, Q.V.; LIVENTSEV, F.L.; PETROV, V.M.; KESTIN, A.K.

High-temperature cooling of the lOGK-1 gas motor compressor.

Trudy IPI no.221:153-165 '62. (MIRA 15:9)

(Compressors—Cooling) (Gas, Natural—Transportation)

A parameter for comparative evaluation of thermal stresses in diesel engines. Trudy LPI no.221:166-179 *62. (MIPA 15:9) (Diesel engines)

L 26489-65

ACCESSION NR: AT5003224

\$/2563/64/000/237/0005/0010

AUTHOR: Burin, M. M.; Kostin, A. K.

TITLE: Using the electrothermal analogy method to investigate the steady state temperature conditions of a motor piston

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy, no. 237, 1964. Teplovyye mashiny; dvigateli vnutrennego sgoraniya i transportnyye mashiny (Heat engines; internal combusion engines and transport machines), 5-10

NOP COTACS (preson to service physical smolar ingraheats exchange, electric smaller, by creation to see the constant of sections of the constant of the const

/ Control of the cont accuracy. This method, in turn, is divided into the electric and hydraulic methods, the first of which is more effective. The modeling of the temperature fields is based on the principle of electrothermal analogy and involves the use of 1) the continuous medium method and 2) the electric grid method. In the first case, the model represents a continuous electroconductive medium (electrolyte, Card 1/2

L 26489-65

ACCESSION NR: AT5003224

electroconductive paper, tinfoil, dispersed mass, etc.), and in the second the model appears in the form of an electric grid produced by replacing the modeled field with the elements of an electric circuit. The electric modeling method is now used fairly often for the purpose of studying the major parts of internal combustion motors, such as pistons, bushings and valves. Electroconductive paper is used in most cases and, less often, an ohmic resistance grid. Orig. art. has: 4 figures.

ASSOCIATION: Leningradksiy politekhnicheskiy institut imeni H. I. Kalinina (Leningrad polytechnical institute)

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Card 2/2

L 26597-65

ACCESSION NR: AT5003226

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8+1

AUTHOR: Kostin, A. K.

TITLE: Determining the limiting characteristics

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy, no. 237, 1964. Teplovyye mashiny; dvigateli vnutrennego sgoraniya i transportnyye mashiny (Heat engines; internal combustion engines and transport machines), 17-20

TOPIC TAGS: calorific intensity, gas turbine, pressure charging, limiting characteristic, barometric pressure, motor power, fuel feed, turbosupercharger, marine engine, diesel locomotive engine

ABSTRACT: An increase in calorific intensity accompanying a change to a slower rate of operation is most likely in the case of motors with turbosuperchargers. If the reduced number of revolutions increases the fuel feed per cycle (which is characteristic of certain types of fuel devices), the resulting calorific intensity is still greater. As the rated engine operation usually corresponds to the optimum temperature of its parts, any increase in the calorific intensity above that level is usually considered inadmissible. So-called limiting characteristics are therefore determined in the case of marine and diesel-

L 26597-65

ACCESSION NR: AT5003226

locomotive engines, because the manufacturer's rating is not always reliable. Under operational conditions, any disruption of the motor work or a breakdown of the air cooler or turbosupercharger will reduce the air pressure and temperature around the various motor inlets. This should be followed by a reduction of the fuel supply per cycle, i.e. a reduction in the power developed by the motor. Orig. art. has: 4 formulas and 2 figures.

ASSOCIATION: Leningradskiy policekhnicheskiy institut imeni H. I. Kalinina (Leningrad polytechnical institute)

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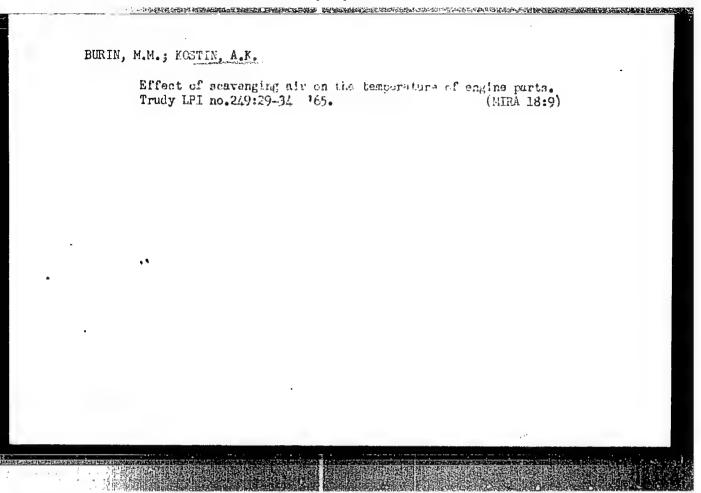
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Card 2/2



Mapid loading of automobiles in the Gorkiy harbor. Rech. transp. 15 (MLRA 10:2) (Gorkiy—Cargo handling) (Automobiles—Transportation)

PAKHOMOV, V.B., kand. tekhn. nauk; NAUMOV, A.I., inzh.; SHEIMANOV, V.S., inzh.; KONSTANTINOV, V.P., inzh.; KOSTIN, A.M., inzh.; SEMENOV, YU.K., inzh.; PYATLIN, A.A., kapitan; VAGANOV, G.I., kand. tekhn. nauk; SVIRIDOV, A.A., inzh. KHODUNOV, M.Ye., kand. yurid. nauk; SAPOGOVA, A.Ye., inzh.; SOYUZOV, A.A., doktor tekhn. nauk, prof., red.; VASIL'YEV, A.V., kand. tekhn. nauk; ALEKSEYEV, V.I., red.; KUSTOV, L.I., red.; VITSINSKIY, V.V., red.; BORISOV, I.G., red.; SOLAREV, N.F., red.; ANDRIYENKO, V.I., red.; SUTYRIN, M.A., red.; GOLOVNIKOV, V.I., red.; ZOTOVA, V.V., red.

[Manual for the navigator of a river fleet] Spravochmik sudovoditelia rechmogo flota. Izd.2., dop. Moskva, Transport, 1965. 423 p. (MIRA 18:2)

1. Gor'kovskiy institut inzhenerov vodnogo transporta (for Pakhomov, Semenov, Vaganov, Vasil'yev). 2. Moskovskiy rechnoy tekhnikum (for Naumov). 3. Volzhskoye ob"yedinennoye rechnoye parokhodstvo (for Shelmanov, Sapogova). 4. Miristerstvo rechnogo flota (for Konstantinov; Sviridov). 5. Kazanskiy port (for Kostin). 6. Moskovskoye rechnoye parokhodstvo (for Pyatlin).

KOSTIN, A.P.; SKACHKOV, B.S.; IBREV, V.H.

Improve the quality of manufacturing water rheostats. Blek. 1 tepl.tiaga 3 no.2:44 F 159. (MIRA 12:4)

1. Depo Len'ki, Tomskaya doroga.
(Electric rheostats)

KOSTIN, A.P.

Ecologic foundations of the increase in the productivity of farm animals. Zool. zhur. 41 no.12:1761-1770 D '62. (MIRA 16:3)

1. Kafedra fiziologii zhivotnykh Kubanskogo sel'skokhozyaystvennogo instituta, Krasnodar.

(Domestic animals) (Zoology-Ecology)

Kostin, A.P.

USSR/Farm Animals. Cattle

Q-2

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35630

Author

Kostin de Fe

Inst

: Not Given

Title

: Physiological Processes in Young Cattle under Different

Ecological Conditions

Orig Pub: Tr. Kubensk. s.-kh. in-te, 1957, vyp. 3 (31), 45-67

Abstract: Experiments were carried cut on 4 groups of cattle (mostly on castrated young bulls) in the Krasnodar region. The first group, composed of 30 enimals of the Rod Steepe breed, 9-18 nonths of age, was reared on the plains. The second analogous group of 19 heads was kept at an altitude of 1,000-1,800 n. above see level. The third group, consisting of 16 heads of the Kuben'-Black See breed, reised at an eltitude of 800-1,000 n., stayed for 45 days at an altitude of 1,800-2,000 n. The respiration, gas metabolism, and state of the cardiovescular system of the animals, were studied. It was found that on the plains in the summertime, during

Cerd : 1/2

USSR/Fern Animals. Cattle

Q-2

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 35630

daylight hours the frequency of respiration was increased; likowiso, cardiac activity and gas matabolism were intensified. The heat production end thermal regulation depended on the temperature of the air, the feed consumed, and the novements of the enimal. After the transfer of the cettle from the plains to high mountain pastures, the frequency of respiration and pulse were increased, as well as the formel elements in the blood. After a 45-day stey at the high altitude pasture, the level of the exidetion processes of the lung, and cerdiec activity had decreased. The rapidity of the adaptation of animals to the new ecological conditions depended on the previous conditions of their management.

Card 1 2/2

Kustin

Q-3

USAPPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220002

Ref Zhur - Bioli, No 7, 1958, 30943

Abs Jour

Author

Kostin A.P., Gasteva GiS.

Inst Title Physiological Peculiarities of the Red Steppe and Kuban'-

(Fiziologicheskiye osvennosti u krasnostepnogo i kubano-Black Sea Cattle.

chernomorskogo skota).

Orig Pub

: Tr. Kubansk. s.-kh. in-ta, 1957, vyp. 3 (31), 68-81.

Abstract

Physiological processes under different ecological conditions were studied on 26 calves, 47 castrated bulls, 14 heifers, and 18 cows. The Red Steppe cattle surpass other breeds by their high adaptability to the hot climate of Kuban'. The first intake of food lowers the oxidation processes in the calf, but in the second and subsequent feeding, gas metabolism increases and cardiac activity is intensified. In calves of the Red Steppe

Card 1/2

of the adaptation of cattle to the factors described in under conditions in plains and mountains." Krasnodar, "Soviet Kuban'", 1956, 29 pp (Acad Sci USSR. Inst of Physiology im ixxx I.P. Pavlov) 120 copies (KL, 23-58, 103)

- 31 -

KOSTIN. A.P.

Physiology of altitudinal acclimatization in cattle. Opyt iguch.reg. fiziol.funk. 4:54-65 158. (MIRA 12:4)

l. Laboratoriya ekologicheskoy fiziologii (zaveduyushchiy - prof. A.D. Slonim) Instituta fiziologii imeni I.P. Pavlova AN SSSR i Kafedra fiziologii shivotnykh Kubanskogo zeliskokhozyaystvennogo instituta.

(CATTIE--PHYSIOLOGY)

(ALTITUDE, INFLUENCE OF)

(RESPIRATION)

KOSTIN. A.P.

Effect of digestive processes in rumen on the gas and energy netabolism of ruminants. Agrobiologiia no.2:171-176 Mr-Ap 59. (MIRA 12:6)

1. Kubanskiy sel'skokhozyaystvennyy institut, kafedra fiziologii shivotnykh.

(Ruminantia) (Metabolism)

KOSTIN, A.P.; SUKHOMLIN, K.G.

Reactions of cutaneous blood vessels to heat and cold in cattle. Fiziol.zhur. 47 no.3:329-335 Mr '61. (MIRA:14:5)

1. From the Animal Physiology Chair of the Agricultural Institute,

Krasnodar. (SKIN-BLOOD SUPPLY) (TEMPERATURE—PHYSIOLOGICAL EFFECT).

ZEL'TSER, G.Ya.; VOLOBOYEV, I.N.; KOSTIN, A.P.; BULGAKOV, A.A.;
VOZNYUK, V.S.; KALMIKOV, A.M.; STUDENTSOV, S.A.; BERSHIDSKIY,
P.I.; MOISEYEV, G.A., insh., retsensent; SOBAKIN, V.V., insh.,
red.; VOROTNIKOVA, L.F., tekhn. red.

[The TG102 diesel locomotive]Teplovos TG102. Moskva, Transsheldorisdat, 1962. 150 p. (MIRA 16:1)

(Diesel locomotives--Hydraulic drive)

STARKOV, P.M., prof., red.; AKOPOV, I.E., prof., red.; KOSTIN, A.P., prof., red.; FYATNITSKIY, N.P., prof., red.; LATYSHEV, V.A., dots., red.; AGANYANTS, Ye.K., kand. med. nauk, red.

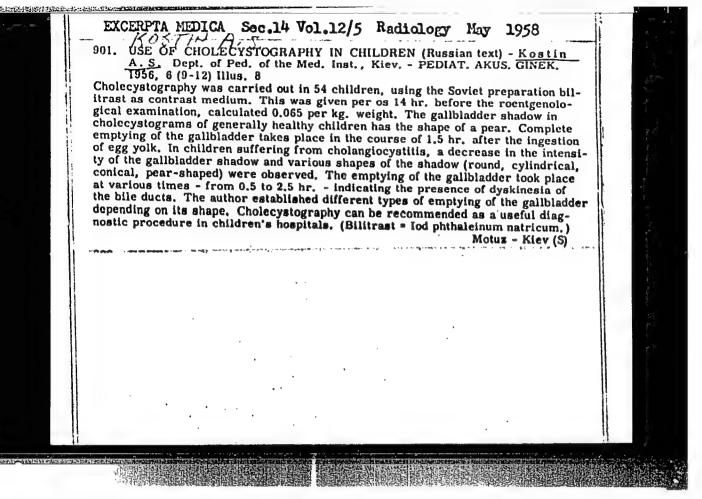
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[Materials of the 14th Conference of Physiologists of the Southern R.S.F.S.R.] Materialy Konferentsii fiziologov iuga RSFSR Krasnodar, Vses. fiziologicheskoe ob-vo im. I.P. Pavlova, 1962. 406 p. (MIRA 17:9)

1. Konferentsiya fiziologov yuga RSFSR. 14th, Krasnodar, 1962.

2. Kafedra normal'noy fiziologii Kubanskogo meditsinskoʻ instituta, Krasnodar (for Aganyants). 3. Zaveduyushchiy kafedroy farmakologii Kubanskogo meditsinskogo instituta, Krasnodar (for Akopov). 4. Zaveduyushchiy kafedroy fiziologii zhivotnykh Kubanskogo sel'skokhozyaystvennogo instituta, Krasnodar (for Kostin).

5. Zaveduyushchiy kafedroy anatomii i fiziologii Krasnodarskogo pedagogicheskogo instituta (for Latyshev). 6. Zaveduyushchiv kafedroy biokhimii Kubanskogo meditsinskogo instituta, Krasnodar (for Pyatnitskiy). 7. Zaveduyushchiy kafedroy normal'noy fiziologii Kubanskogo meditsinskogo instituta, Krasnodar (for Starkov).



KOSTIN, A. S., Cand Med Sci -- (diss) "Materials for the diagnostics of the biliary tract in children." Kiev, 1960. 20 pp; (Kiev Order of Labor Red Banner Medical Inst im Academician A. A. Bogomol'ts); 300 copies; price not given; (KL, 25-60, 139)

KOSTIN, A.V. [Kostin, O.V.]

Asymptotic series in the theory of nonlinear systems of ordinary differential equations. Dop. AN URSR no.4:461-464 '64.

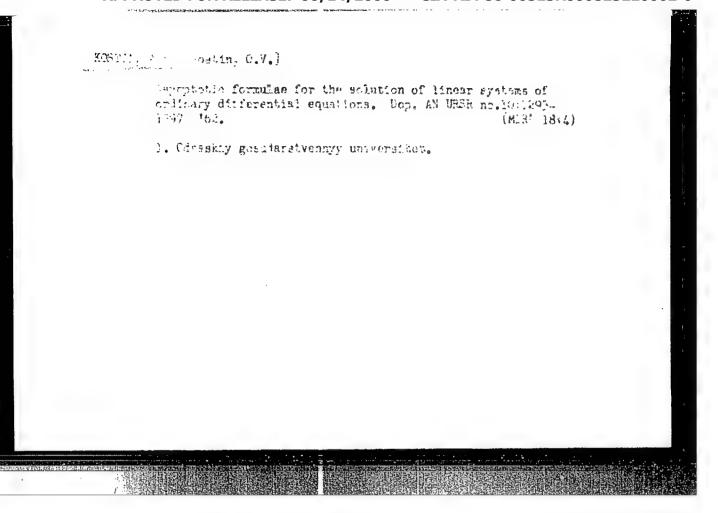
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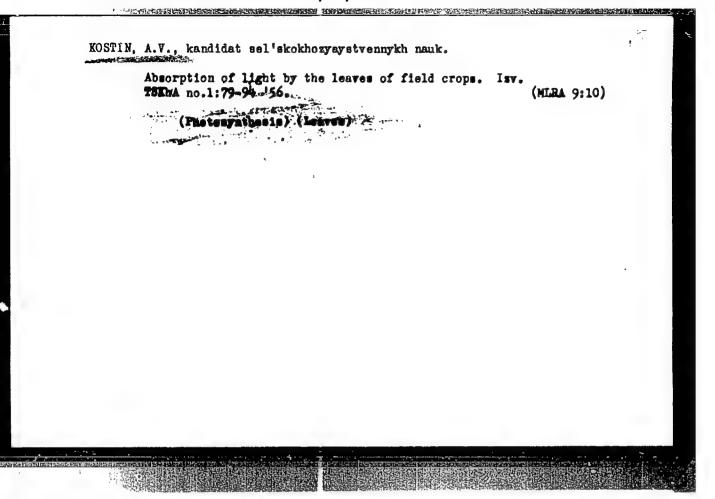
1. Odesskiy gosudarstvennyy universitet. Predstavleno akademikom Ali UkrSSR Yu.A.Mi ropol'skim [Mytropol's'kyi, IU.O.].

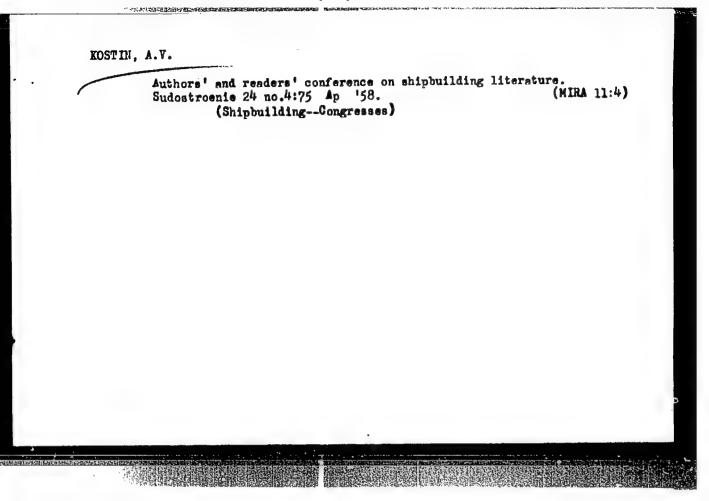
KOSTIN, A.V. (Odessa)

Single-valued solutions to nonlinear first-order differential equations and some properties of real periodic solutions.

Ukr. mat. zhur. 16 no.1:110-115 '64. (MIRA 17:5)







S/021/61/000/005/002/012 D215/D304

A.

AUTHOR: Kostin, O.V.

TITLE: On the asymptotic properties of partial solutions of non linear systems of ordinary differential equations

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 5, 1961, 590 - 594

TEXT: In the first part of the present paper the author gives a sufficient condition, under which the system of differential equations

$$\frac{dy_l}{dt} = q_l(t) + \sum_{k=1}^{n} p_{lk}(t) y_k + X_l(t, y_1, \dots, y_n) \ (l = 1, \dots, n), \tag{1}$$

has at least one bounded solution. All functions are defined in the domain $G[t \gg T,/y_1/\leqslant a]$ where T, a are constant, a>0 and the

Card 1/8

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On the asymptotic properties ...

functions used have the following properties. All functions are complex functions continuous in the domain G and $X_1(t, 0, ..., 0) \equiv 0$, (i = 1, ..., n). Functions $X_1(t, y_1, ..., y_n)$ satisfy the Lipshits conditions in the domain G, i.e.

$$|X_{l}(t, y_{1}, \ldots, y_{n}) - X_{l}(t, z_{1}, \ldots, z_{n})| \leq L_{l}(t) \sum_{k=1}^{n} |y_{k} - z_{k}| (t = 1, \ldots, n),$$

where $L_1(t)$ is a continuous function for $t \geqslant T$. System (1) in the domain G differs little from the linear triangular system

$$\frac{dy_{i}^{*}}{dt} = \sum_{k=1}^{n} p_{ik}(t) y_{k}^{*} \ (i = 1, \dots, n).$$
 (2)

The aim of the paper is to present an improved method of successive approximations. Let y_{is-1} (i = 1, ..., n) be the (s-1)-st approximation then y_{is} is defined as follows: Card 2/8

S/021/61/000/005/002/ul2 D215/D3U4

On the asymptotic properties ...

 $\frac{dy_{ls}}{dt} = q_l(t) + \sum_{k=1}^{l-1} p_{lk}(t) y_{ks-1} + X_l(t, y_{ls-1}, \dots, y_{ns-1}) + \sum_{k=l}^{n} p_{lk}(t) y_{ks}$ $(l = 1, \dots, n),$

The initial values of y_{is} could be chosen in such a way that y_{is} are expressed by the formula:

$$y_{is} = \int_{A_{i}}^{t} q_{i} \exp \int_{\tau}^{t} p_{ii} dt d\tau + \sum_{k=1}^{t-1} \int_{A_{ik}}^{t} p_{ik} y_{ks-1} \exp \int_{\tau}^{t} p_{ii} dt d\tau + \sum_{k=t+1}^{t} \int_{A_{ik}}^{t} p_{ik} y_{ks} \exp \int_{\tau}^{t} p_{ii} dt d\tau + \sum_{k=t+1}^{t} \int_{A_{ik}}^{t} p_{ik} y_{ks} \exp \int_{\tau}^{t} p_{ii} dt d\tau + \sum_{k=t+1}^{t} \int_{A_{ik}}^{t} p_{ik} y_{ks} \exp \int_{\tau}^{t} p_{ii} dt d\tau$$

$$(i = 1, \dots, n),$$

Card 3/8

On the asymptotic properties ... S/021/61/000/005/002/012The limits of integration A_1 , A_{1k} , A_{x1} were chosen in the following way: $A = + \infty \text{ if } \int_{\Phi_e}^{-Res_{i}dt} e^{-Res_{i}dt}$ exists, and A = T if not. Then the auxiliary functions $\frac{e}{2}(t, \epsilon)$ were found from the $\frac{1}{2} = \lambda_{i} \int_{|q_{i}| \exp \int_{X}} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \exp \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_{ik}| \det \int_{X} Rep_{ii} dt d\tau + e^{-\frac{1}{2}\lambda_{ik}} \int_{A_{ik}} |p_$

On the asymptotic properties ...

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tant & < a could be chosen in such a way that:

$$A_{1}(t) + \epsilon^{0}B_{1}(t) \leq \epsilon^{0}$$
, (i = 1, 2, ... n), $t \geqslant T$,

$$(i = 1, 2, ... n)$$

when for example

$$0 \leqslant \frac{A_{\underline{1}}(t)}{1 - B_{\underline{1}}(t)} \leqslant a, t \geqslant T,$$

 $(i=1, 2, \ldots, n)$. It follows immediately that if the first approximation $/y_i$, $(t)/\leqslant \epsilon^0$, $(i=1, 2, \ldots, n)$, $t\geqslant T$, then all other approximations $/y_{is}(t)/\leqslant \epsilon^0$. If in addition

$$\max_{\substack{(1) \\ (1)}} \left[\sup_{\substack{t \\ (1)}} B_1(t)\right] = m < 1$$

then the series of successive approximations is absolutely and uni-Card 5/8

On the asymptotic properties ...

8/021/61/000/005/002/012 D215/D304

formly convergent in the interval $(T, +\infty)$. Therefore, the following Theorem (1) was proved. If the limits A_i , A_{ik} , A_{xi} could be chosen in such a way that

then the system (1) has at least one bounded partial solution for $t \gg T$. Further let

$$Q_{\underline{1}} = \int_{A_{\underline{1}}}^{t} / q_{\underline{1}} / \exp \int_{\tau}^{t} \operatorname{Re} p_{\underline{1}\underline{1}} dt d\tau, L_{\underline{1}} = \int_{A_{\underline{1}}}^{t} L_{\underline{1}}(\tau) \exp \int_{\tau}^{t} \operatorname{Re} p_{\underline{1}\underline{1}} dt d\tau,$$

$$P_{ik} = \int_{A_{ik}}^{t} /p_{ik} / \exp \int_{\tau}^{t} Re p_{ii} dt d\tau.$$

Oard 6/8

S/021/61/000/005/002/012 D215/D304

On the asymptotic properties ...

If A_i , A_{ik} , A_{xi} were chosen as previously described then Theorem 2 is correct. Theorem 2. If all conditions of Theorem 1 are fulfilled and additionally $Q_i \rightarrow 0$ for $t \rightarrow + \infty$ then system (1) has at least one partial solution $y_i^*(t)$ ($i=1,2,\ldots,n$) which tends to 0 as t tends to infinity. In the second part of the paper, the connection between the solution of the system

$$\frac{dy_{i}}{dt} = P_{i}(t, y_{1}, ..., y_{n}) (i = 1, ..., n)$$
 (4)

and the solution of the system

$$P_1(t, u_1, \dots u_n) = 0 \ (i = 1, \dots n)$$
 (5)

were considered and it was shown how to find approximation or any order. As a particular case the differential equation of the first order was considered

Card 7/8

On the asymptotic properties ...

S/021/61/000/005/002/012 D215/D304

$$\frac{d\mathbf{y}}{d\mathbf{t}} = \mathbf{f}(\mathbf{t}, \mathbf{y}) [\mathbf{y} - \mathbf{v}(\mathbf{t})], \tag{6}$$

where all functions are continuous for $t \geqslant T$. There are 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc.

ASSOCIATION: Odes'kyy derzhavnyy universytet (State University of Odessa)

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SUBMITTED: July 15, 1960

A

Card 8/8

16.3400

S/044/62/000/006/017/127 B158/B112

AUTHOR:

Kostin, A. V.

TITLE:

Stability and instability of almost triangular systems, asymptotic properties of partial solutions of non-linear systems of

differential equations

PERIODICAL: Referativnyy zhurnal. Matematika, no. 6, 1962, 59, abstract 6B251 (Nauchn.yezhegodnik, Odessk. un-t. Fiz.-matem. fak. i N.-i. in-t fiz., Odessa, no. 2, 1961, 82 - 86)

TEXT: A system of equations

$$\frac{dy_i}{dt} = \frac{\frac{n}{k+1}}{\sum_{k=1}^{n}} p_{ik}(t) y_k + x_i(t, y_1, ..., y_n)$$

(i=1, ..., n), is studied, the right-hand terms of which are defined and continuous in the domain $G[t \ge T, |y_i| \le a, T, a = const, a > 0]$. Card 1/2

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S/044/62/000/006/017/127 B158/B112

Stability and instability ...

It is assumed that this system in certain respects is close to a triangular system

 $\frac{dy_{i}^{*}}{dt} = \sum_{i=1}^{n} p_{ik}(t) y_{k}^{*}.$

dt k=i

Certain conditions of stability are given, and also sufficient conditions of Certain conditions of stability of a trivial solution. Proofs of the theorems are not given. The author reports only on the application of these for proving the method of O. Perron. Further conditions are given, which are sufficient for the existence at least of one bounded solution of a system of equations obtained from (1) by adding certain functions q_i(t) to the right sides of these equations. [Abstracter's note: Complete translation.]

Card 2/2

Existence of bounded partial solutions and partial solutions tending toward zero at t -> + oo in a system of ordinary differential equations. Dif. urav. 1 no.5:585-604 My '65.

(MIRA 18:7)

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Public inspection. Za bezop.dvizh. 4 no.4:1-2 Ap '62. (MIRA 15:5)

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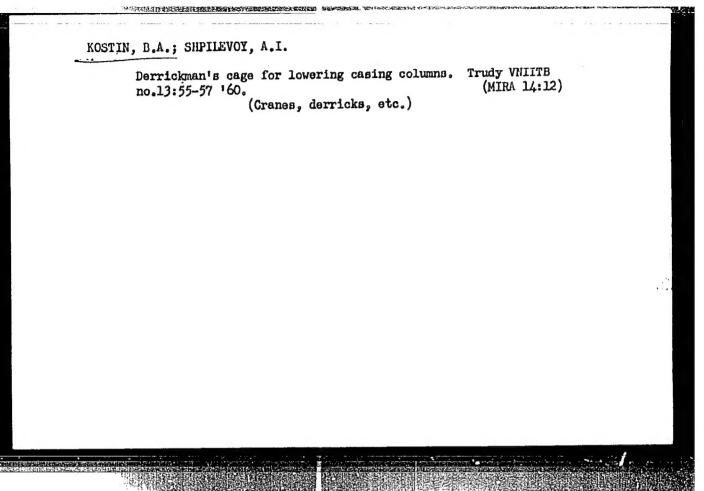
Wave-motion imitating gangways for safely setting men down on offshore structures. Trudy VNIITB no.11:35-44 '59. (MIRA 15:5) (Oil well drilling, Submarine)

KOSTIN B.A.; DUBROVINA, N.D., vedushchiy red.; POLOSINA, A.S., tekhn.red.

[Assembling and using safety devices in petroleum and gas production] Montash i ekspluatatsiia prisposoblenii po tekhnike bezopasnosti v neftegasodobyvaiushchei promyshlennosti. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 116 p. (MIRA 12:9)

1. Baku. Vsesoyuznyy nauchno-issledovatel'skiy institut po tekhnike bezopaznosti v neftyanoy promyshlennosti. 2. Rukovoditel' konstruktorskogo otdela Vsesoyuznogo nauchno-issledovatel'skogo instituta po tekhnike bezopaznosti v neftyanoy promyshlennosti (for Kostin).

(Petroleum industry -- Safety measures)



KOSTIN, B.A.

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(Cranes, derricks, etc.)